Data Sheet (Cat.No.TMAY-01819)

Anti-GPA33/A33 Antibody (2X371)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2X371
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of human GPA33 in human small intestine with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to epithelium. 2. Immunochemical staining of human GPA33 in human colon with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to epithelium. 3. Immunochemical staining of human GPA33 in human colon carcinoma with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to epithelium.
Application:	ELISA,IHC-P
Recommended	ELISA: 1:5000-1:10000; IHC-P: 1:100-1:500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human GPA33 protein (TMPY-02012)
Antigen Species:	Human
Synonyms:	GPA33;MGC129987;A33;MGC129986;Glycoprotein A33
Biology Area:	Cancer Drug Targets

Research Background

Cell surface A33 antigen, also known as glycoprotein A33, is a single-pass type I membrane protein that is expressed in the normal gastrointestinal epithelium and 95% of colon cancers. GPA33 contains one Ig-like C2-type (immunoglobulin-like) domain and one Ig-like V-type (immunoglobulin-like) domain. The open reading frame encodes a 319-amino acid polypeptide having a putative secretory signal sequence and 3 potential glycosylation sites. The predicted mature protein has a 213-amino acid extracellular region, a single transmembrane domain, and a 62-amino acid intracellular tail. Intracellular traffic and recycling to the cell surface appear to play a major role in GPA33 function and to have an influence on its surface density superseding translational regulation. GPA33 has become a promising target of immunologic therapy strategies, but its biologic function and potential role in tumorigenesis are unknown. EpCAM protein and GPA33 mRNA expressions are specific and sensitive markers of

Barrett's metaplasia (BM). GPA33 may also play a role in cell-cell recognition and signaling.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

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